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PUB-NO: JP410294644A DOCUMENT-IDENTIFIER: JP

JP 10294644 A

TITLE: POLAR SURFACE ACOUSTIC WAVE DEVICE

PUBN-DATE: November 4, 1998

INVENTOR - INFORMATION:

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APPL-NO: JP09116180

APPL-DATE: April 18, 1997

INT-CL (IPC): HO3 H 9/64; HO3 H 9/145; HO3 H 9/25

ABSTRACT:

PROBLEM TO BE SOLVED: To improve the attenuation gradient near a cutoff by setting at least one of vibration mode of one coupled multimode SAW filter constituting a resonance synthesis-type filter and as least one vibration mode of the other filter in such a way that resonance frequencies are equal and input/output phase shift quantity in the resonance frequencies differ by a specified value.

SOLUTION: The filters A and B being vertically coupled triple mode SAW filters are electrically connected in parallel to constitute a resonance synthesis type SAW filter C. The filter B is arranged by shifting the electrode fingers of IDT4a by λ/2 so that the phase becomes opposite to that of the filter A. IDT2a-2c and 4a-4c are set so that the relation of the resonance frequencies of the filters A and B satisfies Fal=Fbl and Fa3=Fb2. Input/output phase shift quantity is varied by (2n+1)π, (n=0.1...). Thus, the resonance synthesis type SAW filter C whose attenuation gradient near the high band-side of the cutoff is steep can be provided.

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